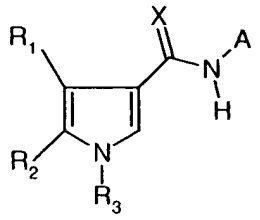
What is claimed is

1. A pyrrolecarboxamide or pyrrolethioamide of the formula I



(I)

wherein

X is oxygen or sulfur;

R_1 is C_1-C_4alkyl unsubstituted or substituted, with the exception of CF_3; C_3-C_6cycloalkyl unsubstituted or substituted; or halogen;

R_2 is hydrogen, C_1-C_4alkyl unsubstituted or substituted, C_1-C_4alkoxy unsubstituted or substituted, cyano or halogen;

R_3 is C_1-C_4alkyl unsubstituted or substituted; and

A is orthosubstituted aryl; orthosubstituted heteroaryl; bicycloaryl unsubstituted or substituted; or bicycloheteroaryl unsubstituted or substituted.

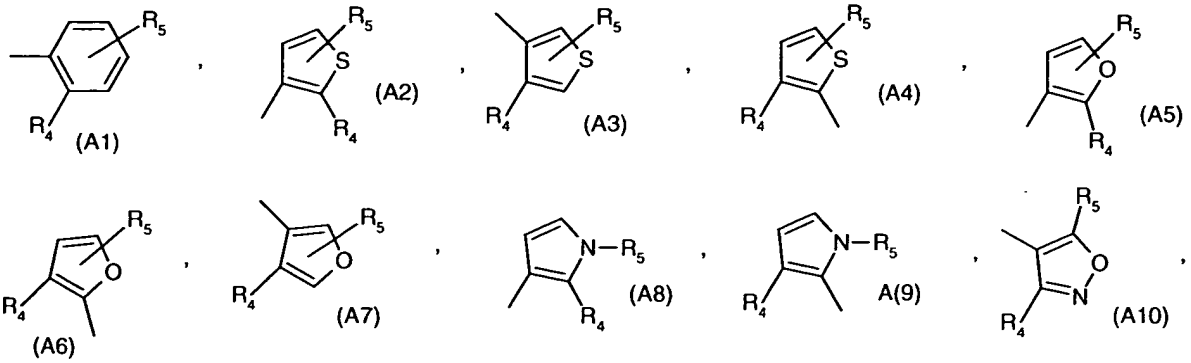
2. A compound of formula I according to claim 1, wherein

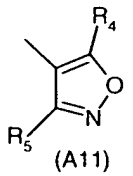
R_1 is C_1-C_4alkyl; C_1-C_4haloalkyl; C_1-C_4alkoxy-C_1-C_4alkyl; C_1-C_4haloalkoxy-C_1-C_4alkyl; C_3-C_6cycloalkyl unsubstituted or substituted by C_1-C_4alkyl, C_1-C_4haloalkyl, C_1-C_4alkoxy, C_1-C_4haloalkoxy, C_1-C_4alkoxy-C_1-C_4alkyl, C_1-C_4haloalkoxy-C_1-C_4alkyl or halogen; or halogen;

R_2 is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl, C_1-C_4alkoxy, C_1-C_4haloalkoxy, C_1-C_4alkoxy-C_1-C_4alkyl, C_1-C_4haloalkoxy-C_1-C_4alkyl, cyano or halogen;

R_3 is C_1-C_4alkyl, C_1-C_4haloalkyl, C_1-C_4alkoxy-C_1-C_4alkyl or C_1-C_4haloalkoxy-C_1-C_4alkyl;

A is a group

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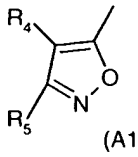
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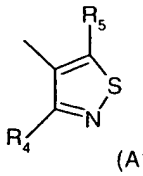
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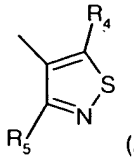
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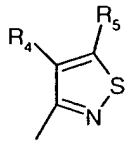
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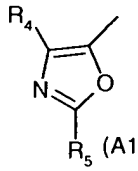
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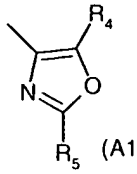
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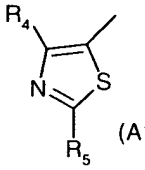
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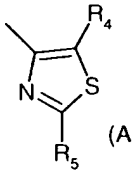
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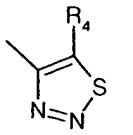
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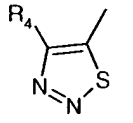
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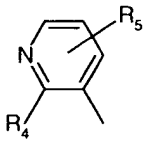
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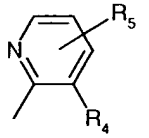
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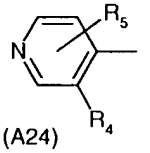
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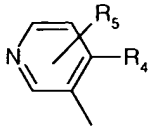
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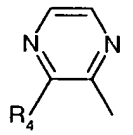
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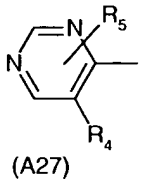
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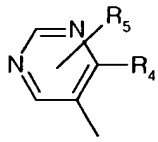
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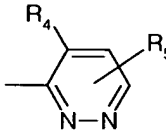
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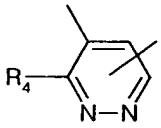
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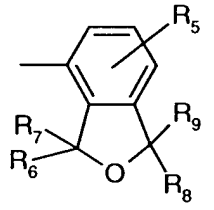
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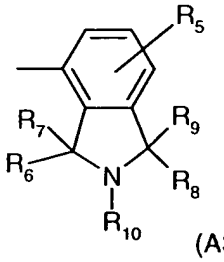
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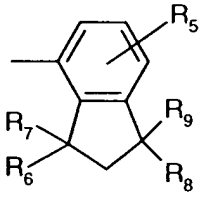

(A33)

and

R_4 is C_3-C_7cycloalkyl, C_4-C_7cycloalkenyl, C_5-C_7cycloalkadienyl wherein the cycloalkyl group can be mono- to pentasubstituted by halogen, hydroxy, C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_4haloalkoxy, C_2-C_4alkenyl, C_2-C_5alkynyl, C_1-C_4haloalkyl; phenyl unsubstituted or substituted by halogen, nitro, cyano, CHO, C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_4haloalkoxy, C_2-C_5alkenyl, C_2-C_5alkynyl, C_1-C_4haloalkyl, $COOC_1$-C_4alkyl, C_1-C_4alkoxy-C_1-C_4alkyl, C_1-C_4alkyl-C_1-C_4alkoxy, C_1-C_4haloalkoxy-C_1-C_4alkyl, C_1-C_4haloalkyl-C_1-C_4alkoxy; thienyl, furyl, pyrrolyl, pyrazolyl, oxazolyl, thiazolyl, isoxazolyl, isothiazolyl, thiadiazolyl, imidazolyl, triazinyl, pyridyl, pyrazinyl, pyridazinyl or pyrimidinyl which are unsubstituted or substituted by halogen, C_1-C_6haloalkyl, C_1-C_6alkyl, C_2-C_5alkenyl, C_2-C_5alkynyl nitro, cyano, hydroxy, CHO, C_1-C_6alkoxy, $COOC_1$-C_6alkyl, C_1-C_4alkoxy-C_1-C_4alkyl, C_1-C_4haloalkoxy-C_1-C_4alkyl or

C_1-C_6haloalkoxy;
R_5 is hydrogen, cyano, nitro, halogen, C_1-C_4haloalkyl, C_1-C_4alkyl, C_1-C_4alkoxy-C_1-C_4alkyl, C_1-C_4haloalkoxy-C_1-C_4alkyl, C_1-C_4alkoxy or C_1-C_4haloalkoxy;
R_6 ,R_7, R_8, R_9 and R_{10} are identical or different and are each independently of the others hydrogen, halogen, C_1-C_4haloalkyl, C_1-C_4alkyl, C_2-C_5alkenyl, C_2-C_5alkynyl, C_1-C_4alkoxy, C_1-C_4alkoxy-C_1-C_4alkyl, C_1-C_6haloalkoxy-C_1-C_4alkyl, C_1-C_4haloalkoxy or C_3-C_7cycloalkyl.

3. A compound of formula I according to claim 2, wherein
X is oxygen.

4. A compound of formula I according to claim 2, wherein
X is sulfur.

5. A compound of formula I according to claim 3, wherein
R_1 is C_1-C_3alkyl; C_1-C_3haloalkyl; C_3-C_6cycloalkyl unsubstituted or substituted by C_1-C_3alkyl, C_1-C_3haloalkyl or halogen;
R_2 is hydrogen, C_1-C_4alkyl or C_1-C_4haloalkyl;
R_3 is C_1-C_4alkyl, C_1-C_3haloalkyl or C_1-C_3alkoxy-C_1-C_3alkyl;
A is A1, A2, A3, A5, A8, A10, A13, A14, A17, A18, A20, A21, A22, A24, A25, A26, A27, A29, A31 or A32;
R_4 is C_5-C_7cycloalkyl, unsubstituted or mono- to trisubstituted by halogen, hydroxy, C_2-C_4alkenyl, C_2-C_4alkynyl, C_1-C_4alkyl, C_1-C_4haloalkyl, C_1-C_4haloalkoxy or C_1-C_4alkoxy; C_5-C_7cycloalkenyl, unsubstituted or mono- to trisubstituted by halogen, hydroxy, C_2-C_4alkenyl, C_2-C_4alkynyl, C_1-C_4alkyl, C_1-C_4haloalkyl, C_1-C_4haloalkoxy or C_1-C_4alkoxy; C_5-C_7cyclodialkenyl, unsubstituted or mono- to disubstituted by halogen, hydroxy, C_2-C_4alkenyl, C_2-C_4alkynyl,
C_1-C_4alkyl, C_1-C_4haloalkyl, C_1-C_4haloalkoxy or C_1-C_4alkoxy; thienyl, furyl, isoxazolyl, oxazolyl, thiadiazolyl, triazinyl, pyridyl, pyrimidinyl, pyrazinyl or pyridazinyl, which are unsubstituted or substituted by halogen, hydroxy, C_1-C_4alkyl, C_1-C_4haloalkyl, C_1-C_4alkoxy or C_1-C_4haloalkoxy; phenyl which is unsubstituted or substituted by halogen, C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_4haloalkyl or C_1-C_4haloalkoxy;
R_5 is hydrogen, halogen, C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_4haloalkyl or C_1-C_4haloalkoxy; and
R_6, R_7, R_8, R_9 and R_{10} are identical or different and are each independently of the others hydrogen, C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_4haloalkyl or C_1-C_4haloalkoxy.

6. A compound of formula I according to claim 5, wherein
A is A1, A2, A3, A17, A20, A21, A24, A25, A26, A27 or A31;
R_1 is C_1-C_2alkyl, C_1-C_3haloalkyl or cyclopropyl;
R_2 is hydrogen or C_1-C_3alkyl;
R_3 is C_1-C_3alkyl or C_1-C_3alkoxy-C_1-C_3alkyl;
R_4 is cyclohexyl, cyclohexenyl or cyclohexadienyl, which are unsubstituted or mono- to disubstituted by chloro, bromo, C_1-C_2alkyl, C_1-C_2haloalkyl or C_1-C_2haloalkoxy; thienyl, furyl, triazinyl, pyridyl, pyrazinyl, pyridazinyl or pyrimidinyl which are unsubstituted or substituted by halogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_1-C_4haloalkoxy;
R_5 is hydrogen, halogen, C_1-C_3alkyl, C_1-C_3haloalkyl, C_1-C_3alkoxy or C_1-C_3haloalkoxy; and
R_6, R_7, R_8, R_9 and R_{10} are identical or different and are each independently of the others hydrogen or C_1-C_3alkyl.

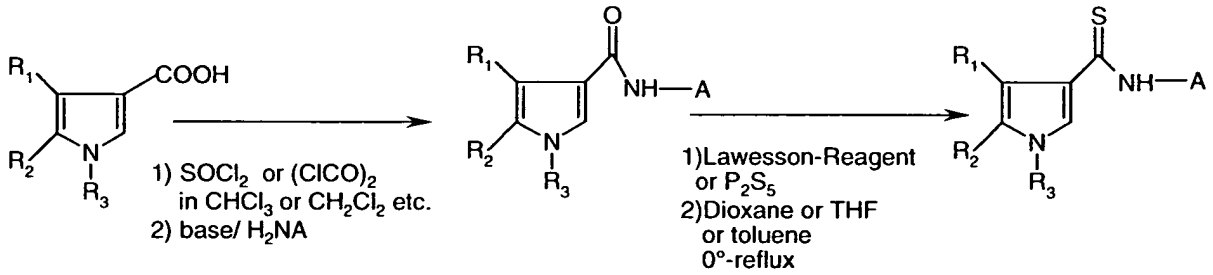
7. A compound of formula I according to claim 6, wherein
R_1 is methyl, ethyl, CFH_2 or CF_2H;
R_2 is hydrogen;
R_3 is methyl or CH_2OCH_3;
A is A31 or A33; and
R_4 is halophenyl, C_5-C_7cycloalkyl or halothienyl.

8. A compound of formula I according to claim 4, wherein
R_1 is C_1-C_3alkyl; C_1-C_3haloalkyl; C_3-C_6cycloalkyl unsubstituted or substituted by C_1-C_3alkyl, C_1-C_3haloalkyl or halogen;
R_2 is hydrogen, C_1-C_4alkyl or C_1-C_4haloalkyl;
R_3 is C_1-C_4alkyl, C_1-C_3haloalkyl or C_1-C_3alkoxy-C_1-C_3alkyl;
A is A1, A2, A3, A5, A8, A10, A13, A14, A17, A18, A20, A21, A22, A24, A25, A26, A27, A29, A31 or A32;
R_4 is C_5-C_7cycloalkyl, unsubstituted or mono- to trisubstituted by halogen, hydroxy, C_2-C_4alkenyl, C_2-C_4alkynyl, C_1-C_4alkyl, C_1-C_4haloalkyl, C_1-C_4haloalkoxy or C_1-C_4alkoxy; C_5-C_7cycloalkenyl, unsubstituted or mono- to trisubstituted by halogen, hydroxy, C_2-C_4alkenyl, C_2-C_4alkynyl, C_1-C_4alkyl, C_1-C_4haloalkoxy, C_1-C_4haloalkoxy or C_1-C_4alkoxy; C_5-C_7cyclodialkenyl, unsubstituted or mono- to disubstituted by halogen, hydroxy,

C_2-C_4alkenyl, C_2-C_4alkynyl, C_1-C_4alkyl, C_1-C_4haloalkyl, C_1-C_4haloalkoxy or C_1-C_4alkoxy; thienyl, furyl, isoxazolyl, oxazolyl, thiadiazolyl, triazinyl, pyridyl, pyrimidinyl, pyrazinyl or pyridazinyl, which are unsubstituted or substituted by halogen, hydroxy, C_1-C_4alkyl, C_1-C_4haloalkyl, C_1-C_4alkoxy or C_1-C_4haloalkoxy; phenyl which is unsubstituted or substituted by halogen, C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_4haloalkyl or C_1-C_4haloalkoxy;
R_5 is hydrogen, halogen, C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_4haloalkyl or C_1-C_4haloalkoxy; and
R_6, R_7, R_8, R_9 and R_{10} are identical or different and are each independently of the others hydrogen, C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_4haloalkyl or C_1-C_4haloalkoxy.

9. A compound of formulaI according to claim 8, wherein
A is A1, A2, A3, A17, A20, A21, A24, A25, A26, A27 or A31;
R_1 is C_1-C_2alkyl, C_1-C_3haloalkyl or cyclopropyl;
R_2 is hydrogen or C_1-C_3alkyl;
R_3 is C_1-C_3alkyl or C_1-C_3alkoxy-C_1-C_3alkyl;
R_4 is cyclohexyl, cyclohexenyl or cyclohexadienyl, which are unsubstituted or mono- to disubstituted by chloro, bromo, C_1-C_2alkyl, C_1-C_2haloalkyl or C_1-C_2haloalkoxy; thienyl, furyl, triazinyl, pyridyl, pyrazinyl, pyridazinyl or pyrimidinyl which are unsubstituted or substituted by halogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_1-C_4haloalkoxy;
R_5 is hydrogen, halogen, C_1-C_3alkyl, C_1-C_3haloalkyl, C_1-C_3alkoxy or C_1-C_3haloalkoxy; and
R_6, R_7, R_8, R_9 and R_{10} are identical or different and are each independently of the others hydrogen or C_1-C_3alkyl.

10. A process for the preparation of compounds of formula I which comprises reacting the starting materials according to the scheme



Base = NEt_3 , Hünig-base, Na_2CO_3 , K_2CO_3 and others

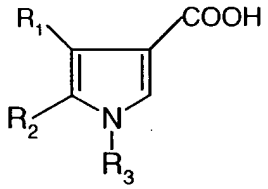
wherein A, R_1, R_2 and R_3 are as defined for formula I in claim 1.

11. A composition for controlling microorganisms and preventing attack and infestation of plants therewith, wherein the active ingredient is a compound as claimed in claim 1 together with a suitable carrier.

12. Use of a compound of formula I according to claim 1 for protecting plants against infestation by phytopathogenic microorganisms.

13. A method of controlling or preventing infestation of cultivated plants by phytopathogenic microorganisms by application of a compound of formula I as claimed in claim 1 to plants, to parts thereof or the locus thereof.

14. A pyrrole carboxylic acid of formula X



(X)

wherein R_1, R_2 and R_3 are as defined for formula I in claim 2.